

Acronym – RES4ALPS

Title – Building Climate Change Resilience of Alpine Mountain Huts and Related Local Contexts

Scientific coordinator – Massimiliano Condotta

Project ID – ITAT-24-018

CUP (National Project ID) – F75E26000040007

Department – Department of Architecture and Arts

Iuav Role – Project Partner

Lead Partner – Research Studios Austria Forschungsgesellschaft mbH (Austria)

Other Project Partners – University of Udine (Italy), Belluno Dolomites National Park (Italy), GAL Euroleader (Italy), Centro Consorzi Belluno (Italy)

Associate Partners – Consorzio Legno Veneto (Italy), Green Tech Italy (Italy), Österreichischer Alpenverein (Austria)

Duration – 26 months

Start date – 01/05/2026

End date – 30/06/2028

Project budget – € 890 047.00

- € 712 037.60 European Regional Development Fund – ERDF (80%)
- € 178 009.40 co-financed by beneficiaries (20%)

Iuav budget – € 256 662.00

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- € 205 329.60 European Regional Development Fund – ERDF (80%)
- € 51 332.40 National Co-Financing (20%)

Source of funding – Interreg VI-A Italia-Austria 2021-2027 – 3rd Call for proposals

Description – RES4ALPS is an Italy–Austria cross-border cooperation project addressing the growing vulnerability of the Alpine region to climate change. The project develops an interpretative framework for climate vulnerabilities and adaptation measures concerning Alpine Mountain huts, alpine farms and the mountain territories connected to them, integrating technical, economic and environmental knowledge and transferring it to local communities. Through the collection of georeferenced data, vulnerability mapping and the development of demonstrative proof-of-concept projects in cross-border pilot areas, RES4ALPS strengthens a culture of prevention and provides public authorities, local communities and local stakeholders with practical tools for climate adaptation. The project is co-financed by the European Regional Development Fund under the Interreg VI-A Italy–Österreich 2021–2027 Programme.

Objectives – Addressing climate change adaptation in fragile Alpine territories requires a multidisciplinary approach capable of balancing the diverse needs of different stakeholders and connecting large-scale data with the specific characteristics of local contexts. It is therefore essential to develop and harmonise this know-how, and to transfer it to local communities and stakeholders, providing them with tools to promote the sustainable territorial management of cross-border mountain areas and enhance their resilience. The project will develop integrated know-how based on scientific, technical and economic scenarios through three complementary trajectories:

(i) vulnerabilities threatening mountain huts, alpine farms and their surrounding contexts will be identified under selected future scenarios, to define potential mitigation and adaptation measures. A georeferenced database (WP2, WP4) will collect and visualise this information, supported by site-specific communication maps (WP2, WP4).

(ii) based on the needs emerging from the territory, low-carbon and circular technical solutions will be identified to support the adaptation of mountain buildings. These solutions will be made tangible to different stakeholders through proofs of concept installed in pilot facilities, with the involvement of local communities and in accordance with the specific context (WP3);

(iii) scenario-based estimates will be conducted to analyse the ecosystem costs associated with the impacts of climate change on local economic activities, which may jeopardise the sustainable management of territories. The aim is to communicate the resulting data effectively and outline potential measures to promote the resilience of the cross-border Alpine region (WP4).

These activities will involve three distinct pilot areas, one in each region, together with specific pilot facilities selected in consultation with local stakeholders. The integration of these three levels of information and related developed tools will result in an interpretative framework for climate change vulnerabilities and adaptation measures concerning Alpine structures, activities and territories, thereby promoting the resilience of natural and built environments across the cross-border Alpine area (WP5). Within WP5, this framework will be validated through an engagement programme and presented in a Manual providing local actors with context-appropriate tools.

Website – www.res4alps.eu